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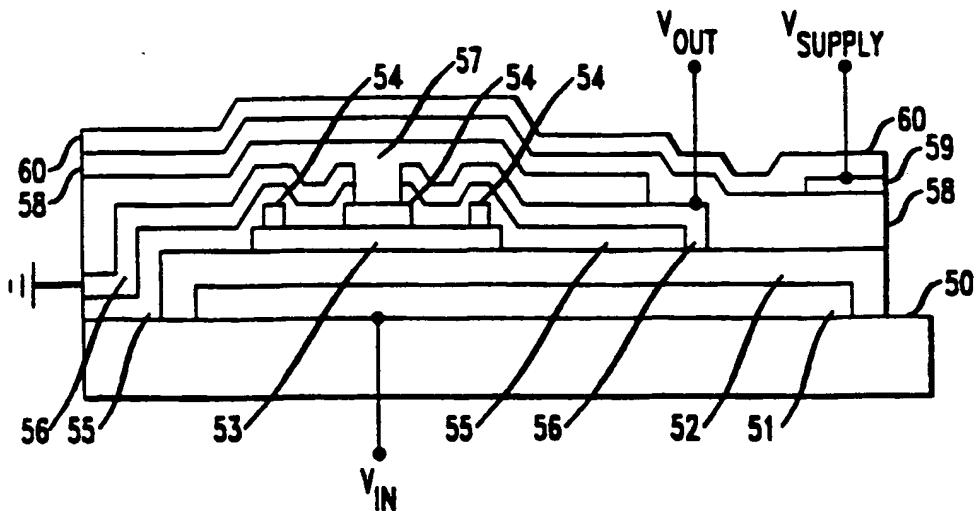
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(54) Circuit comprising complementary thin film transistors

(57) In preferred embodiments of the invention, the n-channel inorganic TFTs have an amorphous Si active layer (53), and the p-channel organic TFTs have α -hexathiylene (α - 6T) active layer (58). Complementary

inverters according to the invention are disclosed, as is an exemplary processing sequence that can be used to manufacture integrated complementary inverters and other complementary circuits according to the invention.

FIG. 9



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT									
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)						
P, X	DODABALAPUR A ET AL: "Hybrid organic/inorganic complementary circuits" APPLIED PHYSICS LETTERS, 15 APRIL 1996, AIP, USA, vol. 68, no. 16, ISSN 0003-6951, pages 2246-2248, XP002055715 * the whole document *	1,2,4-6	H01L51/20 H01L51/30 H01L27/12						
E	US 5 612 228 A (SHIEH CHAN-LONG ET AL) * column 2, line 3 - column 2, line 30; claims 1-18; figures 5,6 *	1,2,4-6							
A	PATENT ABSTRACTS OF JAPAN vol. 014, no. 016 (E-872), 12 January 1989 & JP 01 259563 A (MITSUBISHI ELECTRIC CORP), 17. October 1989, * abstract *	1,2,4							
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<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>16 February 1998</td> <td>Königstein, C</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	THE HAGUE	16 February 1998	Königstein, C
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THE HAGUE	16 February 1998	Königstein, C							
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document							
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document									